

PATENT
Serial No. 10/541,987
Amendment in Reply to Office Action of October 17, 2007

IN THE ABSTRACT

Please delete the current Abstract in its entirety and
substitute therefor the enclosed New Abstract.

NEW ABSTRACT

A circuit for providing power to a load includes a transformer having a primary winding and a secondary winding, the load being connected to the secondary winding, a switch coupled to the primary winding, where the on-time and off-time of the switch is controllable by a control element, for generating a voltage pulse over the primary winding, a diode directly connected in parallel to the primary winding for demagnetizing the transformer during the off-time of the switch. The diode provides a free-running path to demagnetize the transformer if the switch is off. To prevent saturation of the core of the transformer, a subsequent voltage pulse is only applied to the circuit if the free-running current through the diode has become substantially zero.